System Size

Function Point Estimation

Functionality	Input	Output	Queries	File	Program interface
Key Word Search	1	0	1	3	0
Tweet retrieval	1	3	4	2	0
Preprocessing Data	1	3	2	1	0
NLP and Sentiment Analysis	1	1	1	3	0
Prepare and send sentiment report	1	1	1	1	1

	Complexity				
Description	Total #	Low	Medium	High	Total
Inputs	<u>5</u>	3* 3	1* <u>4</u>	1* <u>6</u>	19
Outputs	8	4* <u>4</u>	2* <u>5</u>	2* 7	40
Queries	9	4*7	3* <u>10</u>	2 *15	88
Files	10	5* <u>Z</u>	2* <u>10</u>	3 *15	100
Program interface	1	0 *5	1*7_	0* <u>10</u>	7
Total Unadjusted Function Point (TUFP) =					254

The total processing complexity (PC):-

Complexity is from 0 to 3: (0=no effect on project complexity; 3=great effect on project complexity)

Tasks	Complexity (0-3)
Data communication	3
Team cohesion	2
Familiarity with technology	2
On-line data entry	1

Total Processing Complexity (TPC)=	8

• The adjusted processing complexity (APC):-

• The total adjusted function points (TAFP):-

• Converting Function Points to Line Of Code (LOC):-

Language/Tool	Number of LOC / FP
Python	53.33

Just an Example Reference

- 100% will be done in Python
- Number of lines of code (LOC) = TAFP * # of(LOC\FP) * %

For Python = 185.42*53.33 = 9888.45 So the total LOC= 9888.45 LOC

- Estimating the effort:- Effort = 2.4 * LOC/1000
 - =2.4*9888.45/1000 =23.73 person month
- Estimating the schedule time:-

Time =
$$2.5 * (effort)^{0.38}$$

= $2.5* (23.74)^{0.38}$
= 8.33 months

• Estimating the number of persons:- average of # of

= 2.85 persons